A[illegible] 19/OPP #

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

RECEIVED

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MAY 26 1998

Ms. Elizabeth Codrea
1644 Engler Ave.
P.O. Box
Yuma AZ
85366-5569

Re: Monte Carlo Style Dietary Exposure Assessment for Oxydemeton-methyl

Dear Ms. Codrea:

In preparing for the Reregistration Eligibility Decision document on Oxydemeton methyl, the Agency requires a Monte Carlo style dietary exposure assessment in order to refine the dietary risk estimates.

Attached you will find a summary of toxicological endpoints for Oxydemeton-methyl as identified by the Agency's Hazard Identification Committee. This summary page contains the acute dietary reference dose (0.0008 mg/kg/day) necessary for Gowan to complete the Monte Carlo assessment. Gowan has already contacted the Agency to secure all additional information it needs (percent crop treaded for example) to complete the Monte Carlo assessment.

In an effort to complete the Oxydemeton-methyl Reregistration Eligibility Document during the fourth quarter, the Agency asks Gowan to submit the Monte Carlo assessment by June 10, 1998. If this time frame cannot be met or if Gowan has any additional questions or concerns please do not hesitate to contact me at 703.308.8071.

Sincerely,

Kathy Monk, Chief
Reregistration Branch II
Special Review and Reregistration Division

VIII. ACUTE TOXICITY

Study Type	Animal	Results	Tox Cat	MRID No
81-1: Acute Oral	Rat	Female: LD_{50} = 48 mg/kg	I	40779801
81-2: Acute Dermal	Rat	Female: LD_{50} = 112 mg/kg	I	00143350
81-4: Primary Eye Irritation	Rabbit	Slightly irritating	III	00151801
81-5: Primary Dermal Irritation	Rabbit	Non-irritating	IV	00151801
81-6: Dermal Sensitization	Guinea Pig	Not a skin sensitizer (Beuhler)	N/A	40779802

IX. SUMMARY OF TOXICOLOGY ENDPOINT SELECTION

The doses and toxicological endpoints selected for various exposure scenarios are summarized below.

EXPOSURE SCENARIO	DOSE (mg/kg/day)	ENDPOINT	STUDY
Acute Dietary	LOEL=2.5	Decreased RBC and brain ChE activity in males at day 0.	Acute Neurotoxicity in the rat
	UF=3000	**Acute RfD = 0.0008 mg/kg/day**	
Chronic Dietary	NOEL=0.05	Decreased plasma ChE	ChE study with human volunteers
	UF=100	**Chronic RfD = 0.0005 mg/kg/day**	
Carcinogenicity (Dietary)	OMD is classified as a **"Not Likely"** human carcinogen.		
Short-Term (Dermal)	NOEL=5.0	Decrease plasma, RBC and brain ChE	7-Day dermal toxicity study in the rat
	MOE = 100		
Intermediate-Term (Dermal)	NOEL=0.3	Decreased brain ChE	14-Day dermal toxicity study in the rat
	MOE = 100		
Inhalation (any time period)	LOEL = 0.177 mg/L	Clinical signs (tremors)	Acute Inhalation Study in the Rat
	MOE = 300		